Hurricane Exercise Projected Damage Areas

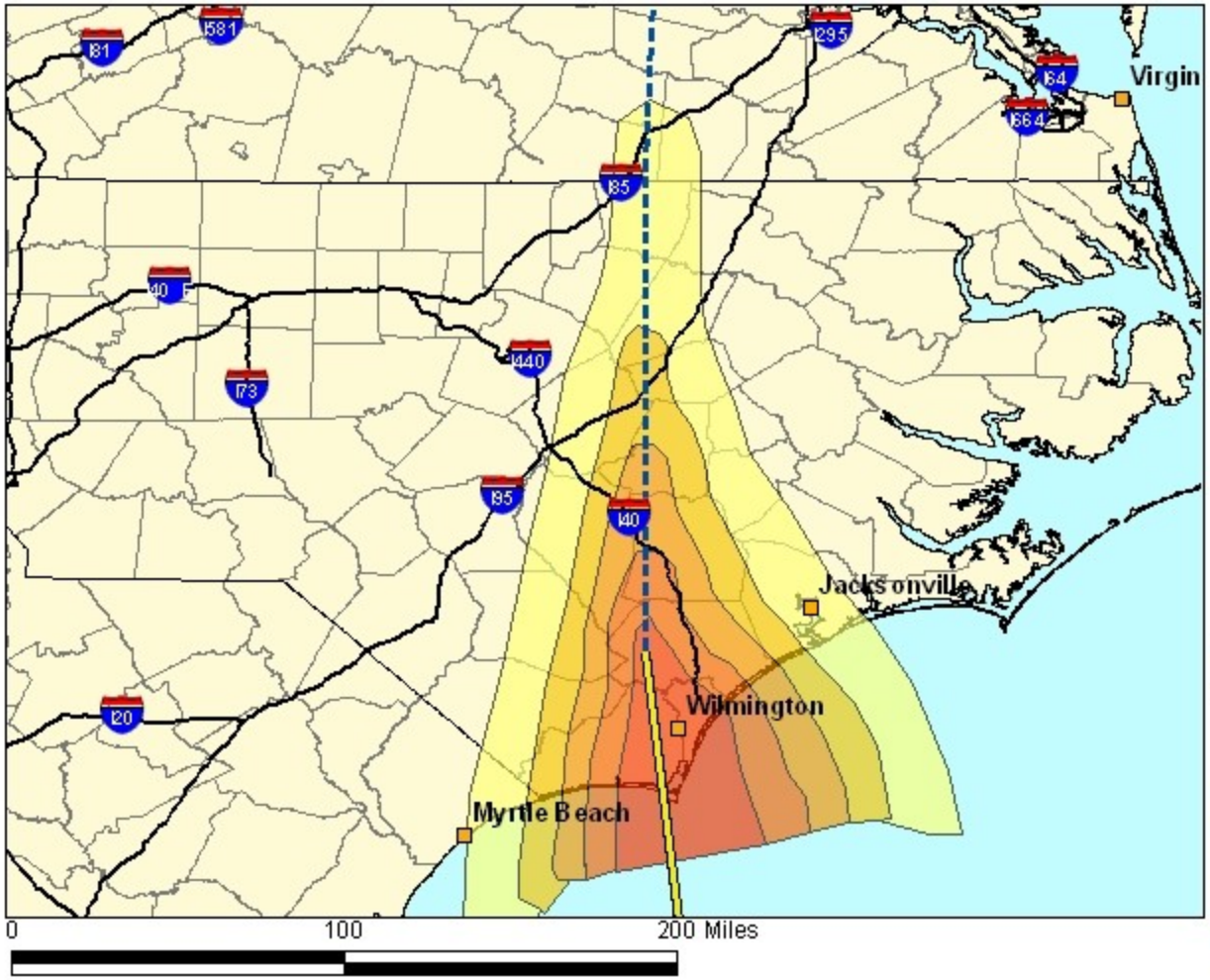
US Army Corps of Engineers

Landfall Plus About 2 Hours

For Official Use Only!

Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall near Wilmington, NC.



Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1200 EDT 05/11/2007) forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Projected Damage Areas	
Generated By: Siemsen, LRL 1230 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Plus About 2 Hours

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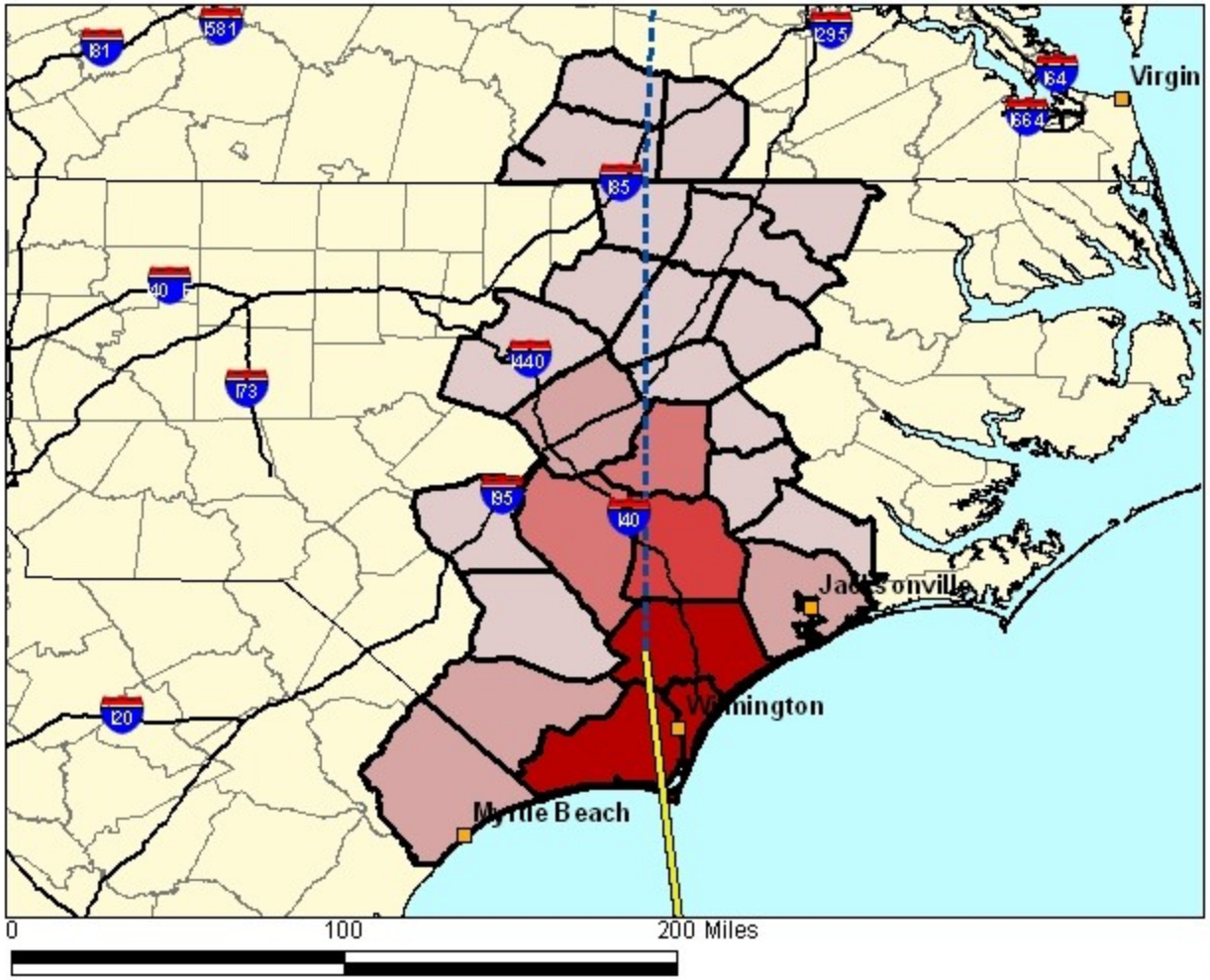

Post Landfall Debris Model Results

North Carolina - 16,966,000 Yards
South Carolina - 110,000 Yards
Virginia - 31,000 Yards

Model results per county on following page

This model is based on a Category 4 storm making landfall near Wilmington, NC.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1200 EDT 05/11/2007) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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Hurricane Exercise Debris Model	
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Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Exercise Debris Model

Landfall Plus About 2 Hours

For Official Use Only!

State	Yards per State	County	Yards per County
North Carolina		Bladen	67,000
		Brunswick	3,293,000
		Columbus	151,000
		Cumberland	2,000
		Duplin	574,000
		Edgecombe	< 1,000
		Franklin	33,000
		Greene	11,000
		Halifax	8,000
		Johnston	175,000
		Jones	6,000
		Lenoir	50,000
		Nash	80,000
		New Hanover	10,168,000
		Northampton	< 1,000
		Onslow	187,000
		Pender	1,330,000
		Sampson	262,000
		Wake	20,000
		Warren	24,000
		Wayne	428,000
		Wilson	97,000
North Carolina	16,966,000		
South Carolina		Horry	110,000
South Carolina	110,000		
Virginia		Brunswick	9,000
		Lunenburg	2,000
		Mecklenburg	20,000
Virginia	31,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Debris Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

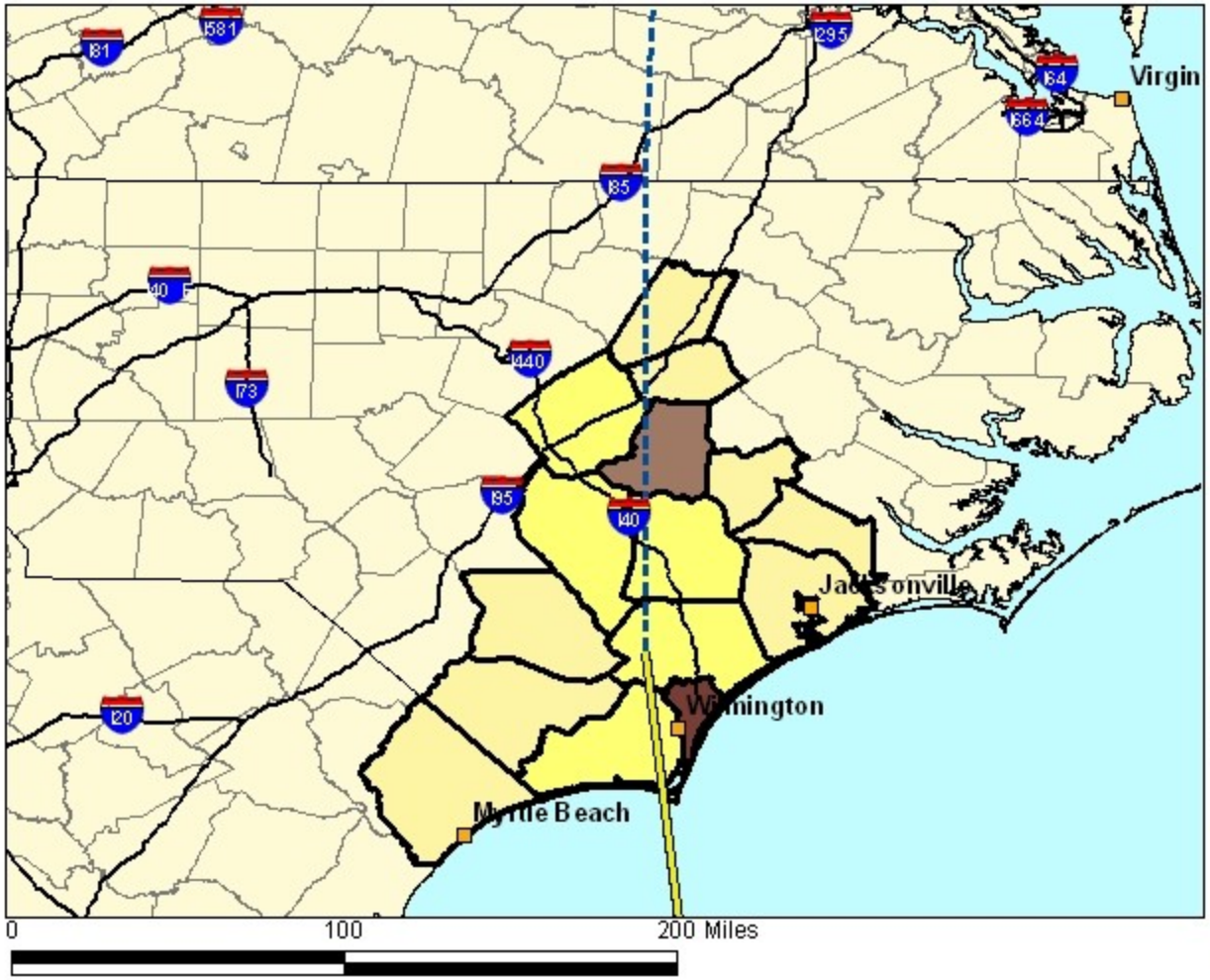
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Population Model

Landfall Plus About 2 Hours

US Army Corps of Engineers

For Official Use Only!



Post Landfall Population Model Results

North Carolina - 584,000
South Carolina - 4,000

Model results per county on following page

This model is based on a Category 4 storm making landfall near Wilmington, NC.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1200 EDT 05/11/2007) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model	
Generated By: Siemsen, LRL 1230 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Exercise Population Model

Landfall Plus About 2 Hours

For Official Use Only!

State	Population per State	County	Population per County
North Carolina		Bladen	7,000
		Brunswick	88,000
		Columbus	10,000
		Duplin	51,000
		Johnston	27,000
		Jones	< 1,000
		Lenoir	< 1,000
		Nash	10,000
		New Hanover	180,000
		Onslow	15,000
		Pender	47,000
		Sampson	35,000
		Wayne	104,000
		Wilson	10,000
North Carolina	584,000		
South Carolina		Horry	4,000
South Carolina	4,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

Hurricane Exercise Population Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

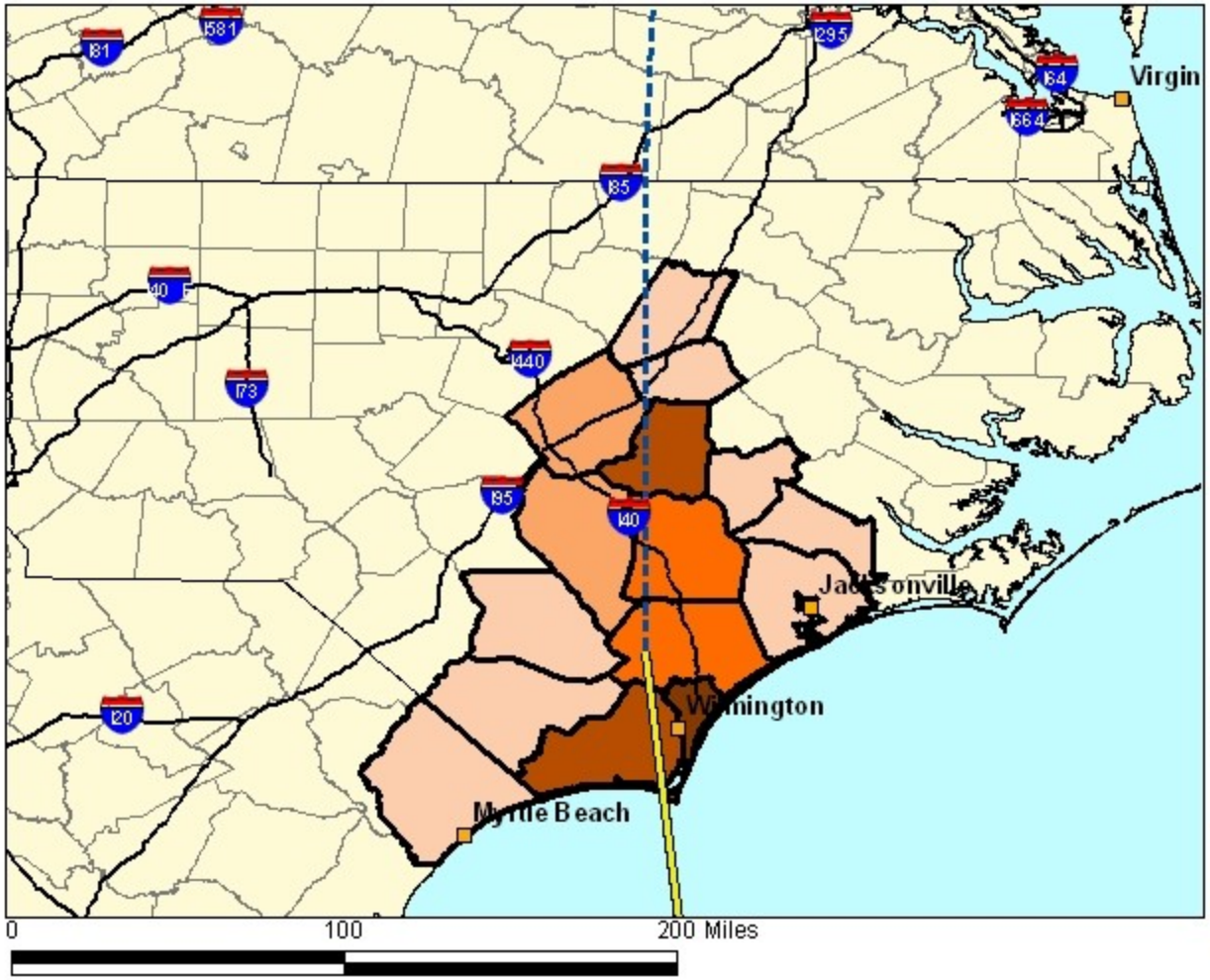
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Plus About 2 Hours

For Official Use Only!



Post Landfall Households Model Results

North Carolina - 237,000
South Carolina - 2,000

Model results per county on following page

This model is based on a Category 4 storm making landfall near Wilmington, NC.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1200 EDT 05/11/2007) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model	
Generated By: Siemsen, LRL 1230 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Exercise Households Model

Landfall Plus About 2 Hours

For Official Use Only!

State	Households per State	County	Households per County
North Carolina		Bladen	3,000
		Brunswick	37,000
		Columbus	4,000
		Duplin	19,000
		Johnston	11,000
		Jones	< 1,000
		Lenoir	< 1,000
		Nash	4,000
		New Hanover	77,000
		Onslow	6,000
		Pender	19,000
		Sampson	13,000
		Wayne	40,000
		Wilson	4,000
North Carolina	237,000		
South Carolina		Horry	2,000
South Carolina	2,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Households Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Plus About 2 Hours

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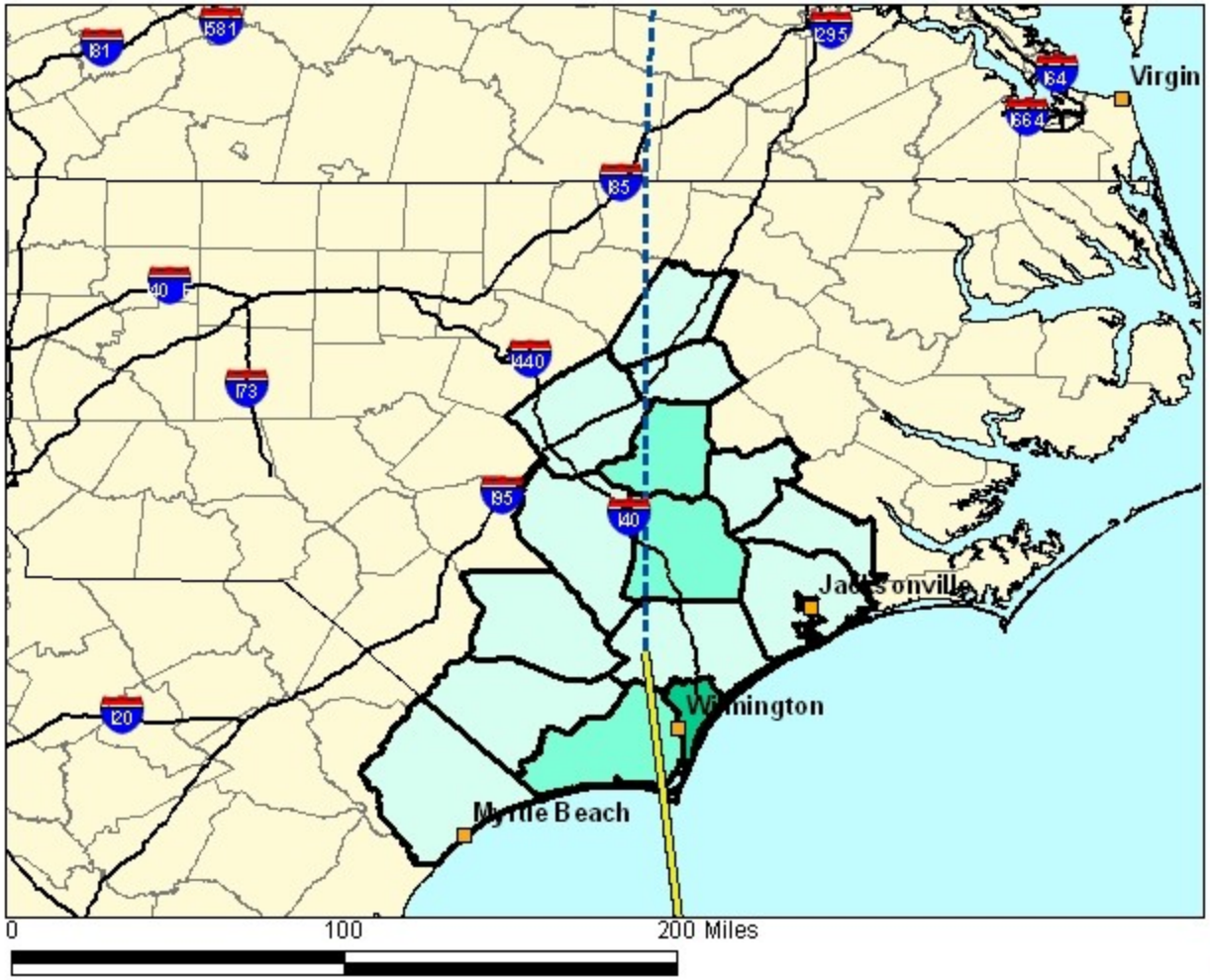

Post Landfall Ice/Water Model Results

Day One / Day Two / Day Three
NC – 14/27/54 Truckloads
SC – 1/1/1 Truckloads

Model results per county on following page

This model is based on a Category 4 storm making landfall near Wilmington, NC.

Forecast Track
Historic Track

Commodities
- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC ***(1200 EDT 05/11/2007)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.
Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Commodities Model

Landfall Plus About 2 Hours

For Official Use Only!

State	Truckloads per State	County	Truckloads per County
North Carolina		Bladen	1
		Brunswick	7
		Columbus	1
		Duplin	5
		Johnston	3
		Jones	1
		Lenoir	1
		Nash	1
		New Hanover	15
		Onslow	2
		Pender	4
		Sampson	3
		Wayne	9
		Wilson	1
North Carolina	54		
South Carolina		Horry	1
South Carolina	1		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 40% of the resident population affected by the hurricane will have power outage in this area and cause a need for ice and water.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Commodities Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Exercise Temporary Housing Model

US Army Corps of Engineers

Landfall Plus About 2 Hours

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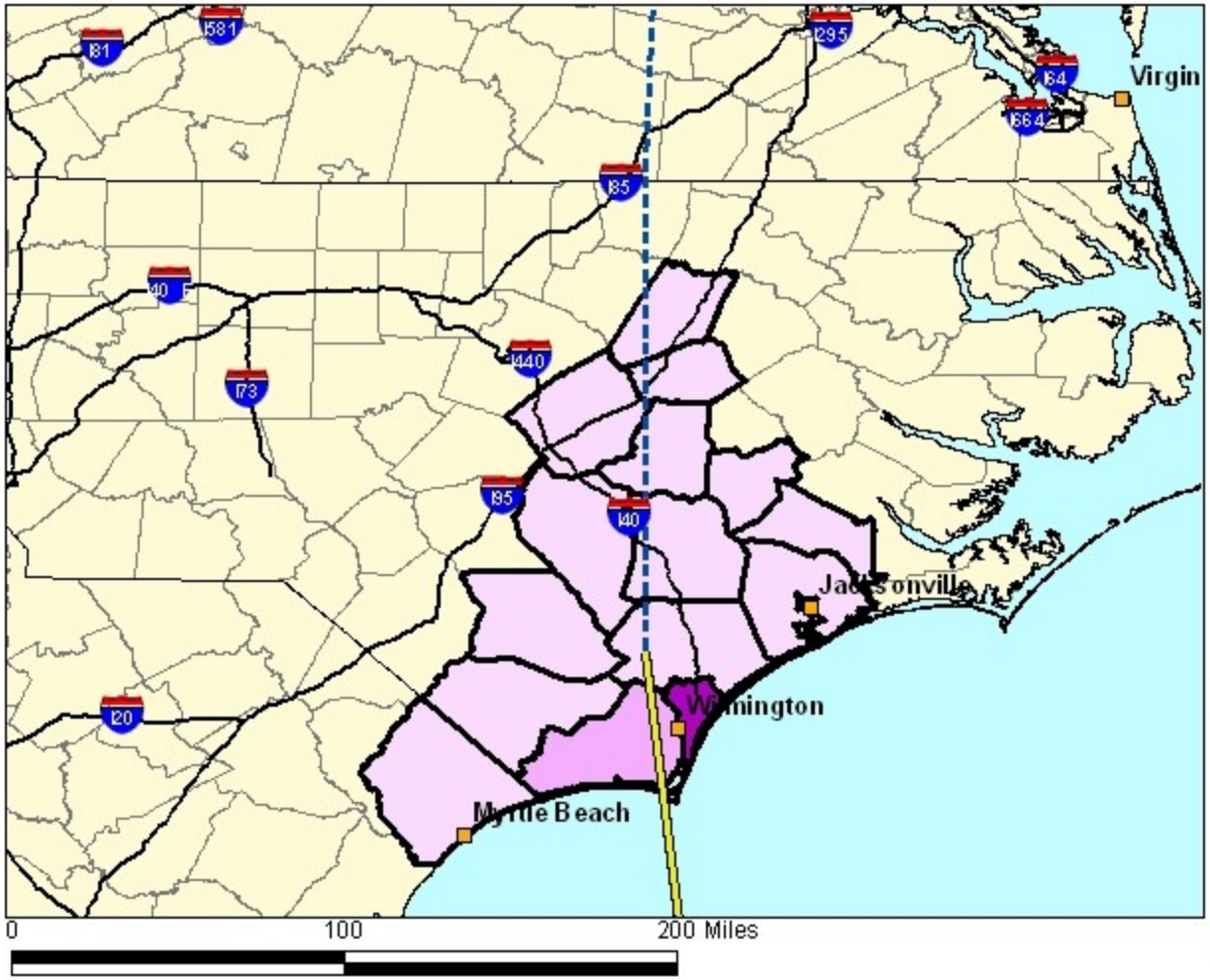

Post Landfall Temporary Housing Model Results

North Carolina - 11,400

Model results per county on following page

This model is based on a Category 4 storm making landfall near Wilmington, NC.

Forecast Track
Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1200 EDT 05/11/2007) forecast. Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 9% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Exercise Temporary Housing Model

Landfall Plus About 2 Hours

For Official Use Only!

State	per State	County	per County
North Carolina		Bladen	< 100
		Brunswick	2,100
		Columbus	< 100
		Duplin	600
		Johnston	200
		Jones	< 100
		Lenoir	< 100
		Nash	< 100
		New Hanover	6,700
		Onslow	< 100
		Pender	900
		Sampson	300
		Wayne	600
		Wilson	< 100
North Carolina	11,400		
South Carolina		Horry	< 100
South Carolina			

THIS IS AN EXPERIMENTAL MODEL!!

Temporary housing is based on 1% in CAT 1, 3% in CAT 2, 5% in CAT 3 and 9% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Housing Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

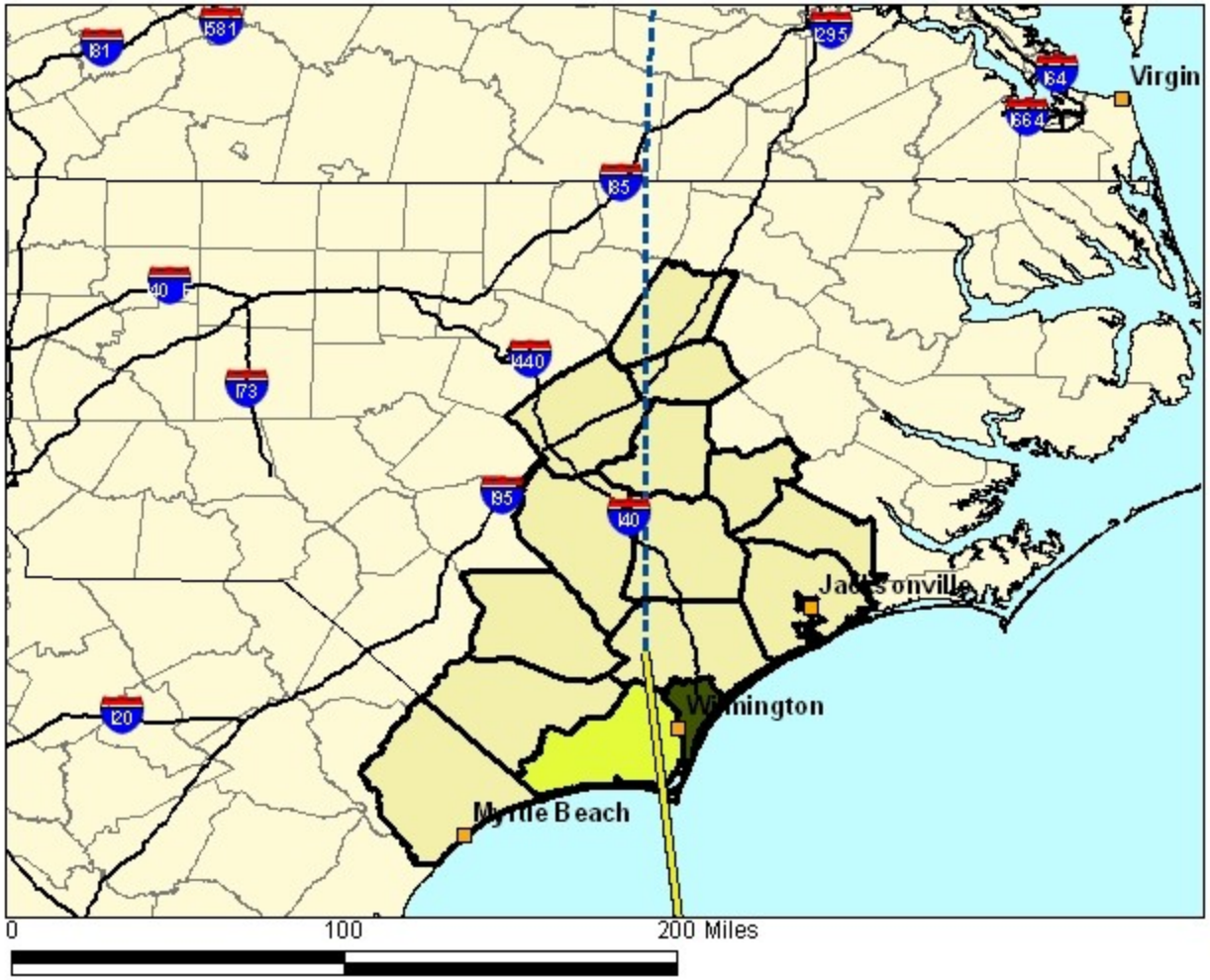
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Plus About 2 Hours

For Official Use Only!



Post Landfall Temporary Roofing Model Results

North Carolina - 18,800

Model results per county on following page

This model is based on a Category 4 storm making landfall near Wilmington, NC.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall near Wilmington, NC. These projections are based on information from the NHC (1200 EDT 05/11/2007) forecast. Temporary roofing is based on 2% in CAT 1, 5% in CAT 2, 9% in CAT 3 and 14% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model	
Generated By: Siemsen, LRL 1230 EDT 05/11/2007	
Sources: HURREVAC LRL-DEBRIS	Page 12 of 13

US Army Corps of Engineers

Hurricane Exercise Temporary Roofing Model

Landfall Plus About 2 Hours

For Official Use Only!

State	House Units per State	County	House Units per County
North Carolina		Bladen	< 100
		Brunswick	3,400
		Columbus	200
		Duplin	1,000
		Johnston	300
		Jones	< 100
		Lenoir	< 100
		Nash	< 100
		New Hanover	10,500
		Onslow	200
		Pender	1,600
		Sampson	500
		Wayne	1,100
		Wilson	< 100
North Carolina	18,800		
South Carolina		Horry	< 100
South Carolina			

THIS IS AN EXPERIMENTAL MODEL!!

Temporary roofing is based on 2% in CAT 1, 5% in CAT 2, 9% in CAT 3 and 14% in CAT 4.

Details about this model may be obtained at https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

Hurricane Exercise Roofing Model

Generated By:
Siemsen, LRL 1230 EDT 05/11/2007

Sources:
HURREVAC
LRL-DEBRIS